

FORM PTO-1390
(REV. 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

1291-0192P

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/936308

INTERNATIONAL APPLICATION NO.

PCT/SE00/00477

INTERNATIONAL FILING DATE

March 10, 2000

PRIORITY DATE CLAIMED

March 12, 1999

TITLE OF INVENTION

AN ACCESSORY FOR A HAND DRILLING MACHINE

APPLICANT(S) FOR DO/EO/US

LILJEDAHN, Bengt

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39 (1).
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau). WO 00/54914
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is transmitted herewith.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4)
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 20. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98-1449 and International Search Report (PCT/ISA/210)
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.
14. ☐ A SECOND or SUBSEQUENT preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:
 - 1.) International Preliminary Examination Report (PCT/IPEA/409)
 - 2.) Three (3) sheets of Formal Drawings

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <div style="font-size: 2em; font-weight: bold;">09/936308</div>		INTERNATIONAL APPLICATION NO PCT/SE00/00477		ATTORNEY'S DOCKET NUMBER 1291-0192P	
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21. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. \$1,000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO. \$710.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4). \$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS PTO USE ONLY	
				\$	1000.00
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	9 - 20 =	0	X \$18.00	\$	0
Independent Claims	1 - 3 =	0	X \$80.00	\$	0
MULTIPLE DEPENDENT CLAIM(S) (if applicable) None + \$270.00				\$	0
TOTAL OF ABOVE CALCULATIONS =				\$	1130.00
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	-565.00
SUBTOTAL =				\$	565.00
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	0
TOTAL NATIONAL FEE =				\$	565.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	0
TOTAL FEES ENCLOSED =				\$	565.00
				Amount to be: refunded	\$
				charged	\$

a. ☒ A check in the amount of \$ **565.00** to cover the above fees is enclosed.

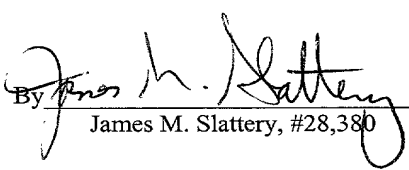
b. ☐ Please charge my Deposit Account. No. _____ in the amount of \$ _____ to cover the above fees.
 A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
 overpayment to Deposit Account No. 02-2448.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

Send all correspondence to:
Birch, Stewart, Kolasch & Birch, LLP or Customer No. 2292
P.O. Box 747
Falls Church, VA 22040-0747
(703)205-8000

Date: September 12, 2001 _____


 By James M. Slattery
 James M. Slattery, #28,380

PATENT
1291-0192P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: LILJEDAHN, Bengt Conf.:
Int'l. Appl. No.: PCT/SE00/00477
Appl. No.: New Group:
Filed: September 12, 2001 Examiner:
For: AN ACCESSORY FOR A HAND DRILLING
MACHINE

PRELIMINARY AMENDMENT

BOX PATENT APPLICATION

Assistant Commissioner for Patents
Washington, DC 20231

September 12, 2001

Sir:

The following Preliminary Amendments and Remarks are respectfully submitted in connection with the above-identified application.

AMENDMENTS

IN THE SPECIFICATION:

Please amend the specification as follows:

Before line 1, insert --This application is the national phase under 35 U.S.C. § 371 of PCT International Application No. PCT/SE00/00477 which has an International filing date of March 10, 2000, which designated the United States of America and was published in English.

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REMARKS

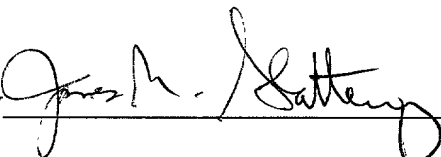
The specification has been amended to provide a cross-reference to the previously filed International Application.

Entry of the above amendments is earnestly solicited. An early and favorable first action on the merits is earnestly solicited.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By 
James M. Slattery, #28,380

JMS/cqc
1291-0192P

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Attachment: VERSION WITH MARKINGS TO SHOW CHANGES MADE

09936308-11001
T002TT-B0E9E660

Docket No. 1291-0192P

VERSION WITH MARKINGS TO SHOW CHANGES MADE

The specification has been amended to provide cross-referencing to the International Application.

(Rev. 8/15/01)

WO 00/54914

3/parts

PCT/SE00/00477

AN ACCESSORY FOR A HAND DRILLING MACHINE

TECHNICAL FIELD

The present invention relates to a device intended as an accessory for hand drilling machines for executing cleaning, polishing, finishing jobs and other jobs of a similar kind.

BACKGROUND

Owners of and also other people living in private and small houses often themselves execute quite of lot of various maintenance jobs, both in regard of buildings and the gardens belonging to the houses. Then a need exists for different auxiliary means allowing them to easily and rapidly and at a reasonable cost execute such jobs.

Hand or portable drilling machines are often included in the set of tools of a house owner. They are often used as a driving source of various accessory tools and often have for this purpose a cylindrical attachment surface located near and around the output shaft of the machine. To the end of the output shaft which is most often provided with an external thread chucks and simple tools like brushes and grinding wheels can be directly attached. Housings or frames of larger tools are attached to the cylindrical attachment surface and a rotating part of such a large tool is coupled to the output shaft of the hand drilling machine. Examples of such larger tools include circular saws, compass saws and hedge pruners.

A polishing tool which is commercially available and is intended as an accessory for a hand drilling machine includes a roller having shaft journals, one of which is intended to be attached in the chuck of the drilling machine and the other one of which is rotatably mounted to a distant end of a bent part. The other end of the bent part has an opening to be attached around the cylindrical attachment surface of the machine. In use, the operator holds the machine with one hand and the other hand grips around the middle portion of the bent part.

SUMMARY

It is an object of the invention to provide an accessory to a hand drilling machine by means of which various operations of the types rough cleaning, scraping, grinding, polishing, finishing etc. can be comfortably executed.

It is a further object of the invention to provide an

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accessory which can be easily changed to have a position at a distance of the driving machine.

An accessory is thus intended for a driving machine which as is common includes an output shaft and an attachment surface. The accessory includes a roller having a working surface and a coupling between the roller and the output shaft of the driving machine. The roller is at its two ends rotatably mounted in the outermost ends of a fork-shaped unit. This unit then includes a mounting part for attachment to the attachment surface of the driving machine, the mounting part encloses a coupling between the output shaft of the machine and a transmission. The transmission is provided in or at the fork-shaped unit for transferring the rotary movement from the machine, through the coupling, to the roller. A prolongation part can be inserted between the driving machine and the mounting part and has one end formed like the end of the driving machine which includes its output shaft and another end formed like the mounting part of the fork-shaped unit.

The accessory including the driving machine is suited for example the following jobs provided that a suitable working surface of the roller is used:

Brushing dark-coloured pressure-impregnated wood e.g. placed out-doors

Scraping/brushing house walls before repainting

Grinding floors indoors without requiring a large electrically driven special machine which can need stronger electrical fuses than provided in the house

Brushing stone surface e.g. outdoor to remove coatings of algae, moss

Polishing large surface like floors and boat sides

Cleaning boat bottoms and similar curved surfaces from algae and other coatings

Wiping of surfaces indoors and outdoors

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will now be described as a non-limiting embodiment with reference to the accompanying drawings in which:

Figs. 1 and 2 are perspective views of an accessory for a hand drilling machine,

Fig. 3 is a sectional view of the accessory of Figs. 1 and 2,

Fig. 4 is a sectional view of a prolongation rod and

Fig. 5 is a perspective view of an alternative embodiment of an accessory for a hand drilling machine.

DETAILED DESCRIPTION

5 Figs. 1 and 2 are perspective views of an accessory for a hand drilling machine. The accessory includes a mounting part 1 being essentially a short pipe and having an interior, cylindrical surface which is intended to be attached around an attachment surface 2, see the sectional view of Fig. 3, at the
10 neck of a hand drilling machine indicated at 3. A tightening device 5 at the entrance of the mounting part 1 includes a knob 7 by which the tightening device and thereby the mounting part 1 can be rigidly attached to the chassis or frame of the drilling machine. To the cylindrical exterior surface of the mounting part
15 1 an operating handle 9 is attached through a bent part 11 and a ring 13, the ring passing around the mounting part. The bent part 11 and the ring 13 are secured to each other at a screw 15, so that the bent part can be turned around the screw 15 and thereby around the ring 13. Thereby also the handle 9 can be turned
20 around an axis perpendicular to the axis of the mounting part 1 and to the direction of the output shaft of the drilling machine.

The mounting part 1 continues into a transmission housing 17, the mounting part and the transmission housing forming one integrated part. The transmission housing 17 extends with a first
25 portion 19 perpendicularly to the axis of the mounting part 1 and then continues in a second portion 21 parallel to the same axis. From the first portion 19 extends, also perpendicularly to the same shaft but in a direction opposite this portion, a third portion 23 in or along which an angular part 25 can slide. The
30 angular part 25 includes an inner first portion 27 which mostly extends inside the third portion 23. A locking pin 29 passes through holes in the inner first portion of the angular part and in the third portion securing the angular part at a predetermined distance from the transmission housing 17. The angular part 25
35 also has a second outer portion 31 which projects perpendicularly from the first portion 27 and extends in parallel to the axis of the mounting part 1. The second outer portion 31 can be significantly thinner than the second portion 21 of the transmission housing and carries at its outermost end a screw 33

forming with its inner end a shaft journal .

The screw 33 carries one end of a rotatable and driven roller 35 and passes into a hole 37 in this end of the roller. The hole is concentrically to the shaft of the roller, see the sectional view of Fig. 3, and the screw carries a bearing 39 secured by a nut 40 and adapted to match the outer portion of the hole 37, the hole having a suitably located step. Through the fixed bearing 40 the roller 35 is rotatably mounted to the angular part 25. The other opposite end of the roller 35 has a contoured hole 41 in which a rotatable shaft 43 engages for driving the roller. The hole or recess 41 can for example have the shape of a deep, short groove and the output end of driving shaft 43 has complementary shape such as having a flat shape. The rotatable shaft 43 is rotatably mounted in the second portion 21 of the transmission housing 17 by bearings 45, 47 and carries and is rigidly connected to a toothed wheel 49. Around the toothed wheel 49 extends a toothed belt 51 which is driven by another toothed wheel 53. This toothed wheel 53 is rigidly attached to a shaft 55 which has a direction located exactly in aligned with the axis of the output shaft of the drilling machine 3. The shaft 55 is by bearings 57, 59 rotatably mounted in the transmissions housing 17. The shaft 55 has a free input end which is contoured in a suitable way, such as having a hexagonal cross-section. This input end is coupled to a short intermediate shaft 60 having an output end configured in a complementary way. For example it can have a hexagonal recess at its front or output end surface. The input end of the intermediate shaft 60 is coupled to the chuck 61 of the hand drilling machine for transferring the rotary movement of the output shaft of the drilling machine to the intermediate shaft 60 and therefrom to the shaft 55 in the transmission housing 17. The toothed belt 51 is deflected at the angle of the transmission housing 17 at the continuation between its first and second portions by intermediate wheels 63, 65 which freely rotate on a shaft 67.

The roller 35 carries on its envelope surface a working material 69 as for example a cloth having e.g. polishing, grinding or scraping properties, such as an abrasive-coated cloth, abrasive paper, grinding nylon sheet. The working material 69 can also have brushing properties and then for example be

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drilling machine 3 can be placed at a larger distance of the rotating roller 35 and its fork-shaped holder formed by the transmission part 17 and the angular part 25. The prolongation part 81 has the shape of a pipe 83 having a front end configured to include an outer cylindrical attachment surface 85 in the same way as the attachment surface 2 of the drilling machine. The rear end is configured in the same way as the mounting part 1 of the tool unit as described above including a clamping device 5' and a tightening knob. Inside the pipe 83 a prolongation shaft 87 is provided which simply is an intermediate shaft like 60 but having a much greater length. Thus, at its front end it is configured to be capable of engaging with the input shaft 55 and at a rear end is configured to be firmly gripped by the chuck 61 of the drilling machine. The handle 9 including attachment devices can be configured so that it can be mounted on an arbitrary position on the pipe 83 for a comfortable operation of the driving machine including the mounted accessory.

The accessory can alternatively be configured to have the shaft of the drilling machine parallel to the axis of the roller 35 as is shown in the sectional view of Fig. 5. There, the mounting part 1" is located to have a side directly at the first portion 19" of the transmission housing 17" so that the axis of the mounting part extends in parallel to the longitudinal direction of the first portion and thereby parallel to the rotation axis of the roller. The driven input shaft 55" is located in the shaft direction of the mounting part and carries as above a toothed wheel 53" cooperating with a toothed belt 51". The toothed belt 51" is here located completely inside the second portion 21" of the transmission unit and extends directly, not requiring any intermediate wheels or deflection wheels, around toothed wheels 53" on the driven input shaft and 49 on the driving shaft 43 of the roller. However, the distribution of weight of the accessory including the mounted driving portable machine can in this embodiment be considerably more asymmetric than in the first embodiment described above due to the fact that the driving machine can project too much laterally. This fact also results in that the machine including the accessory cannot be used on surfaces close to walls. This embodiment is suitably provided with a handle, not shown, corresponding to the handle 9

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according to the above mounted using suitable clamping devices at a position corresponding to the position of the handle 9.

The working roller is in this embodiment shown as a brushing roller 35" which has bristles 35' attached to the envelope surface of the roller. This type of roller thus has a rigidly attached coating layer and the very roller body can have a somewhat smaller diameter adapted to the available space inside the protective cover. It can be used alternately with the roller 35 according to the above having a replaceable surface coating in the two embodiments of the accessory.

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CLAIMS

1. An accessory for a driving machine having an output shaft and an attachment surface, the accessory including a roller having a working surface and a transmission between the roller and the output shaft, characterized in that the roller at its two ends is rotatably mounted in outermost portions of legs of a fork-shaped unit which contains the transmission and includes a mounting part for mounting to the attachment surface, the mounting part containing an input shaft included in the transmission and adapted to be coupled to the output shaft for transferring the movement of the output shaft through the transmission to the roller.

2. An accessory according to claim 1, characterized in that the direction of the output shaft is substantially perpendicular to the rotary axis of the roller.

3. An accessory according to claim 1, characterized in that the transmission includes a first toothed wheel which is rigidly attached to the input shaft and which cooperates with a toothed belt.

4. An accessory according to claim 1, characterized in that the transmission includes a second toothed wheel which is rotatably mounted in the fork-shaped unit and which cooperates with a toothed belt.

5. An accessory according to claim 4, characterized in that the second toothed wheel is rigidly attached to a driving shaft which is rotatably mounted in the fork-shaped unit and which in its end projecting towards the center of the fork-shaped unit is mechanically coupled to the roller for transferring the rotation of the driving shaft to the roller.

6. An accessory according to claim 4, characterized in that the second toothed wheel is mounted in a first leg of the fork-shaped unit and that an opposite second leg of the fork-shaped unit is significantly thinner than the first leg, whereby in the rotation of the roller the roller can be placed close to a side wall.

7. An accessory according to claim 1, characterized by a prolongation unit including a first end having a mounting part similar to the mounting part of the fork-shaped unit and an opposite second end similar to the output side of a driving

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machine for which the accessory is intended, and an intermediate shaft between the first and second ends.

8. An accessory according to claim 1, characterized in that the working surface of the roller is the surface of a working cloth which is detachably mounted to the envelope surface of the roller.

9. An accessory according to claim 8, characterized in that the working cloth has the shape of a strip helically wound around the envelope surface of the roller and having lateral edges of the strip placed at each other.

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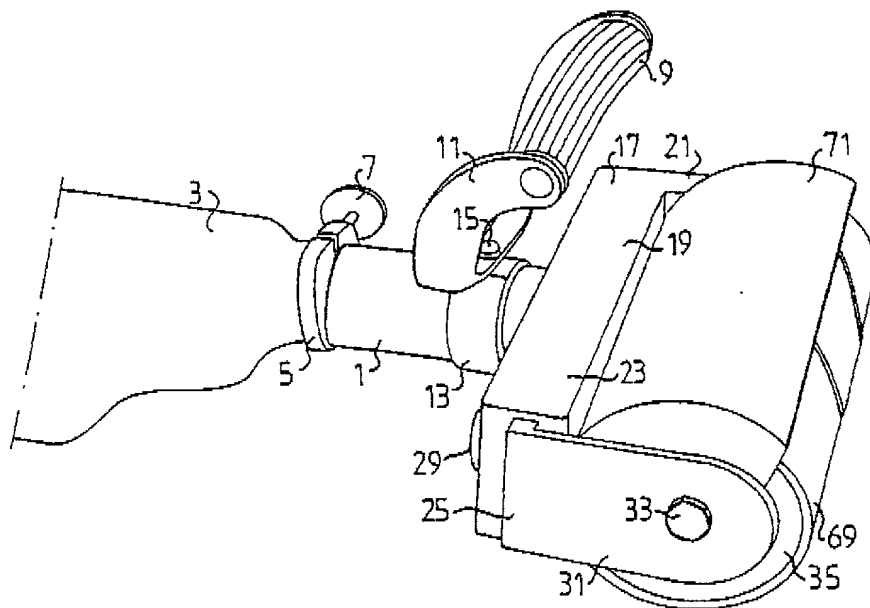


FIG.1

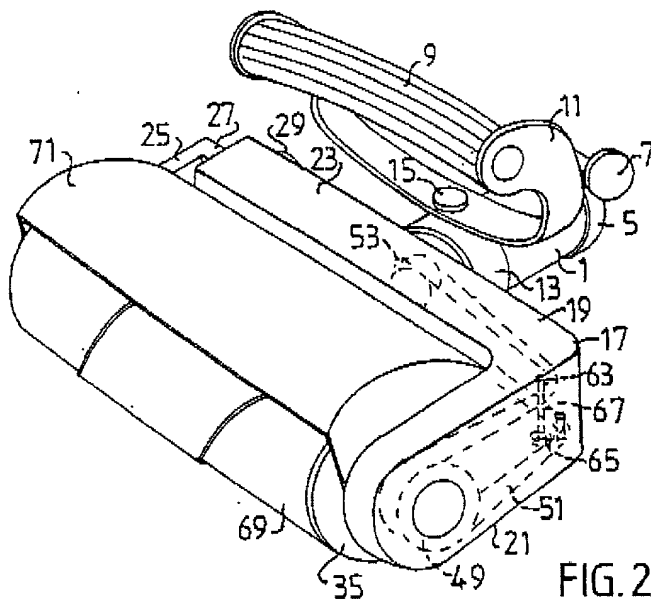


FIG.2

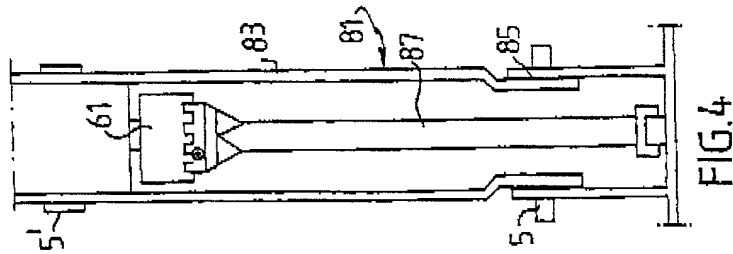
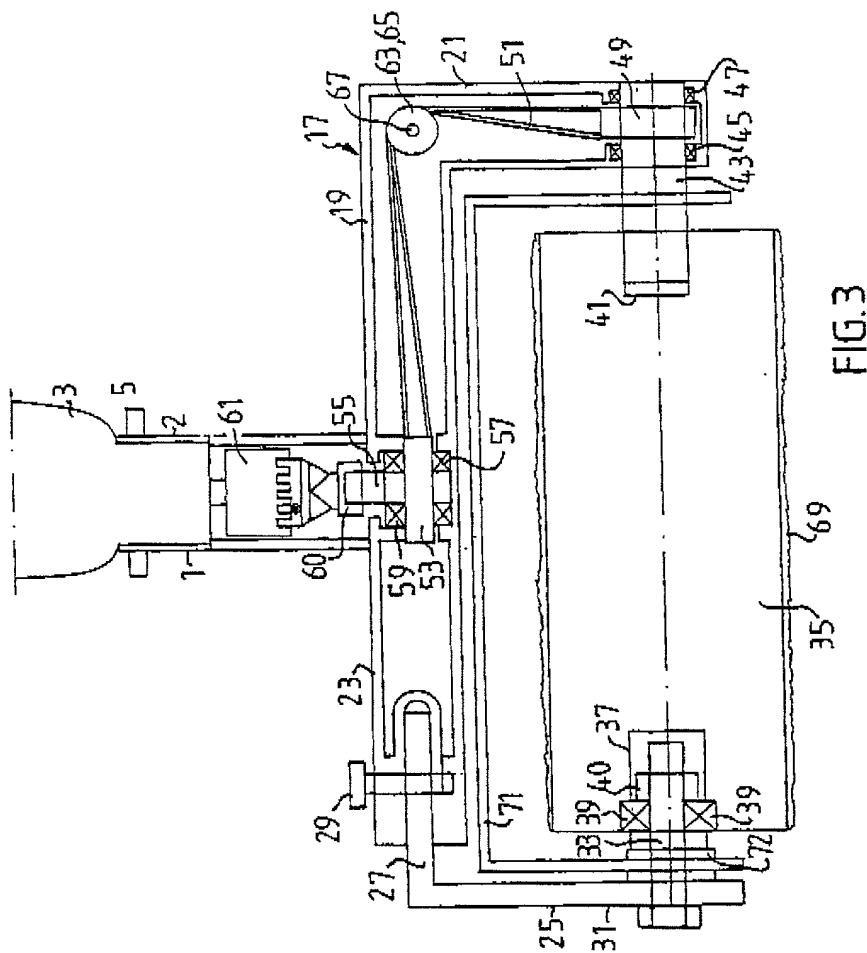
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SUBSTITUTE SHEET (RULE 26)

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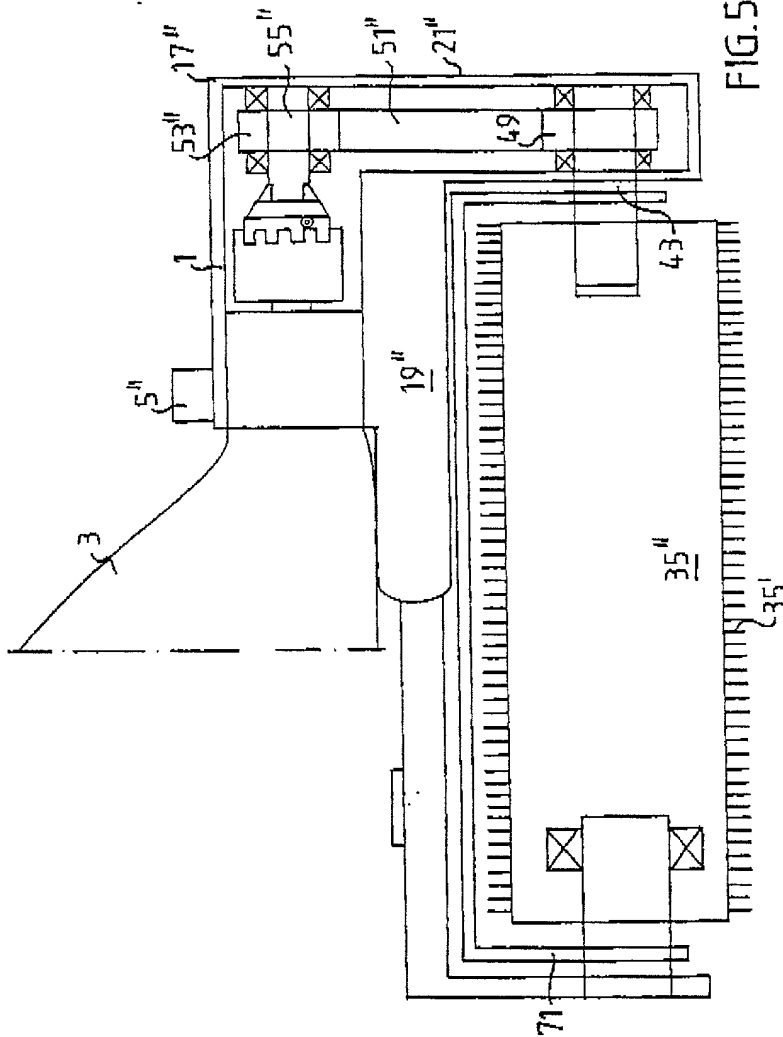


FIG. 5

PLEASE NOTE:
YOU MUST
COMPLETE THE
FOLLOWING

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747
Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

Attorney Docket No. 1291-0192P

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Insert Title:

AN ACCESSORY FOR A HAND DRILLING MACHINE

Fill in Appropriate
Information -
For Use Without
Specification
Attached:

the specification of which is attached hereto. If not attached hereto,
the specification was filed on September 12, 2001 as
United States Application Number _____;
and amended on September 12, 2001 (if applicable) and/or
the specification was filed on March 10, 2000 as PCT
International Application Number PCT/SE00/00477; and was
amended under PCT Article _____ on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56. I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months (six months for designs) prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns, except as follows.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

Insert Priority
Information:
(if appropriate)

<u>9900900-3</u> (Number)	<u>Sweden</u> (Country)	<u>March 12, 1999</u> (Month/Day/Year Filed)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
_____ (Number)	_____ (Country)	_____ (Month/Day/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
_____ (Number)	_____ (Country)	_____ (Month/Day/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
_____ (Number)	_____ (Country)	_____ (Month/Day/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional applications(s) listed below.

Insert Provisional
Application(s):
(if any)

_____ (Application Number)	_____ (Filing Date)
_____ (Application Number)	_____ (Filing Date)

All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior to the Filing Date of This Application:

Insert Requested
Information:
(if appropriate)

Country	Application Number	Date of Filing (Month/Day/Year)
_____	_____	_____
_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States and/or PCT application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Insert Prior U.S.
Application(s):
(if any)

_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

I hereby appoint the following attorneys to prosecute this application and/or an international application based on this application and to transact all business in the Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the attorneys identified below, unless the inventor(s) or assignee provides said attorneys with a written notice to the contrary:

Raymond C. Stewart	(Reg. No. 21,066)	Terrell C. Birch	(Reg. No. 19,382)
Joseph A. Kolasch	(Reg. No. 22,463)	James M. Slattery	(Reg. No. 28,380)
Bernard L. Sweeney	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
Charles Gorenstein	(Reg. No. 29,271)	Gerald M. Murphy, Jr.	(Reg. No. 28,977)
Leonard R. Svensson	(Reg. No. 30,330)	Terry L. Clark	(Reg. No. 32,644)
Andrew D. Meikle	(Reg. No. 32,868)	Marc S. Weiner	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	Donald J. Daley	(Reg. No. 34,313)
John W. Bailey	(Reg. No. 32,881)	John A. Castellano	(Reg. No. 35,094)
Gary D. Yacura	(Reg. No. 35,416)	Thomas S. Auchterlonie	(Reg. No. 37,275)
Mark J. Nuell	(Reg. No. 36,623)		

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Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

or Customer No. 2292

PLEASE NOTE:
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THE
FOLLOWING:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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